

October 31, 2013



Stephen F. Nightingale
Manager, Permit Section
Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Ave. East
P.O. Box 19276
Springfield, IL 62794-9276

Re: 2018080001 - Winnebago County

Winnebago Landfill - Northern and Southern Units

Alternate Source Demonstration

Dear Mr. Nightingale:

On behalf of Winnebago Landfill, submitted herein are an original and three copies of an alternate source demonstration in accordance with Condition VII.15 of Permit No. 1991-138-LF, Modification 62. Application forms (LPC-PA1 and Certification of Authenticity) are provided in Appendix A of the application.

Please contact Tom Hilbert at (815) 963-7516 if you have any questions or require additional information.

Sincerely,

Teresa N. Sharp Environmental Scientist

TNS:bjh:ask:enr

Enclosure(s)

cc: Tom Hilbert – William Charles Waste Companies Bernie Shorle – US EPA Region 5

cresa M. Sharf

Winnebago Landfill Northern and Southern Units Winnebago County, Illinois

Permit Number: 1991-138-LF Site Number: 2018080001

Alternate Source Demonstration

October 2013



Submitted to:

Illinois Environmental Protection Agency
Bureau of Land
Springfield, Illinois

Prepared for: Winnebago Landfill 8403 Lindenwood Road Rockford, Illinois



3300 Ginger Creek Drive Springfield, Illinois 62711

Tel: (217) 787-2334; Fax: (217) 787-9495

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1. INTRODUCTION

Condition No. VII.15 of Permit No. 1991-138-LF, Modification No. 62, granted to Winnebago Landfill Company (LLC as owner and Winnebago Reclamation Service, Inc. as operator), requires that either an alternate source demonstration be conducted for all confirmed monitored increases detected in facility monitoring wells, or that an assessment monitoring program be implemented to determine whether the facility is the source of confirmed increases. Exceedences that were observed during the second quarter of 2013 were sampled for confirmation during the third quarter 2013 event. This alternate source demonstration will address the exceedence of tetrahydrofuran at well R25D (Southern Unit). The application forms (Certification of Authenticity and LPC-PA1) are contained in Appendix A.

2. BACKGROUND INFORMATION

2.1 Site Description

The Winnebago Landfill facility contains three separate disposal areas that have received waste. The Northern and Southern Units were authorized under Illinois EPA Permit No. 1991-138-LF, and the North Expansion Unit was authorized via Permit No. 2006-221-LF. The Northern Unit ceased accepting waste on September 8, 2000 while The Southern Unit ceased accepting waste on March 31, 2011. In addition, the North Expansion Unit—located between the existing Northern Unit and Baxter Road—began operation on May 16, 2008. The West Expansion Unit was permitted via 2010-133-LF but has not been developed at this time. A site location map showing the disposal areas has been provided as Figure 1.

2.2 Site Hydrogeological Summary

The site hydrogeologic characteristics have been determined based on implementation of a series of subsurface investigations, beginning with the initial drilling investigation in 1969 by Testing Engineers, Inc. Subsequent investigations have included advancement of borings, monitoring well/piezometer installations for the existing site and facility expansion, and comprehensive groundwater quality testing because of releases from Acme Solvents. Additional hydrogeologic information has been obtained due to development activities of the North Expansion Unit, which includes excavation of materials exposing bedrock and unconsolidated deposits. Since the West Expansion Unit has not been developed and is physically separated from the Northern, Southern, and North Expansion Units, the hydrogeologic conditions for the West Expansion Unit are not discussed herein.

2.2.1 Unconsolidated Deposits

The composition of the unconsolidated deposits, which appear to be glacial outwash belonging to the Henry Formation, varies with location throughout the facility boundaries. Coarse-grained sand and gravel with occasional silt and/or clay seams typically underlie the Northern Unit. The thickness of the sand and gravel varies from just a few feet beneath the east toe of the waste footprint to approximately 70 feet beneath the western edge of the waste boundary. The sand and gravel thickens to the west, corresponding with the erosion of the underlying dolomite surface. Unconsolidated sand and gravel glacial drift sediments directly underlie the western portion of the Northern Unit, while fractured dolomite bedrock underlies the eastern portion of the landfill.

2.2.2 Bedrock

The bedrock consists of dolomite belonging to the Galena and Platteville Groups, fractured and weathered to varying extents. Chert layers, chert nodules, and small vugs were commonly noted on boring logs. However, larger voids or karst characteristics were not encountered during the boring programs. The bedrock surface is highly variable throughout the facility. East of the site, a bedrock high is present and outcrops in the vicinity of the Acme Solvents site and two quarries. This bedrock upland represents the eastern escarpment of the Upper Rock buried bedrock valley. The previously described waste units are situated on the eastern edge of this bedrock valley. The overburden thickens as the elevation of the bedrock surface decreases to the west. As determined by previous boring investigations, monitor wells, and gas probe installations, the bedrock varies from a high of near 750 feet above mean sea level (MSL) at the southeast corner of the Northern Unit to a low of approximately 675 feet MSL to the west and south of the Southern Unit.

2.2.3 Uppermost Aquifer

The uppermost aquifer for the site is located within the glaciofluvial sand and gravel deposits and the upper portion of the fractured dolomite bedrock. The saturated sands and gravels, which directly overlie the bedrock, occur in the western two-thirds of the Northern Unit. In locations where there are no saturated glaciofluvial deposits, the uppermost aquifer is located within the dolomite bedrock typically overlain by silty clay deposits. This occurs in the eastern third of the Northern Unit.

2.2.4 Groundwater Movement

The regional potentiometric surface resides within the fractured dolomite in the eastern portion of the site and within the unconsolidated glacial outwash in the western portion. The historical direction of movement within the uppermost aquifer is westward in the bedrock high east of the site and to the west-northwest in the unconsolidated sediments. However, dewatering activities implemented as part of cell development within the North Expansion Unit have caused the groundwater movement to temporarily deviate in a northward direction in the vicinity of the Northern Unit. Potentiometric surface maps (fourth quarter 2012 through third quarter 2013) have been provided in Appendix B.

Kilbuck Creek is located west of the Southern, Northern, and North Expansion Units. Shallow groundwater may discharge to Kilbuck Creek while groundwater in the lower part of the unconsolidated sediments and deeper bedrock moves beneath Kilbuck Creek. Kilbuck Creek is both a gaining and losing stream, dependent upon hydrogeologic and atmospheric conditions. During drier periods where the water table drops below the bottom of the creek bed, surface waters feed the groundwater system. During wetter periods where the water table is high (above the bottom of the creek bed) the groundwater system will recharge the stream. This fluctuation allows mixing of surface water (and, consequently, surface water constituents) with groundwater (and any groundwater constituents), often on a seasonal basis. In addition, dependent upon the creek stage, the surface waters of both the creek and the wetland mitigation area may be contiguous.

The bottom of the aquifer system beneath the facility, which includes both the saturated sand and gravel and the underlying weathered/fractured dolomite, lies at an elevation of approximately 665 feet MSL. Previous hydrogeologic investigations and evaluations have shown that vertical gradients do exist within the uppermost aquifer but are typically slight at any individual location. Therefore, groundwater elevations from the bedrock wells and the wells

screened in the unconsolidated materials (sand and gravel) were used to create one potentiometric surface for each quarterly sampling period. The horizontal hydraulic gradients are greater at the east end of the facility where the bedrock is higher and fairly flat near Kilbuck Creek. However, recent dewatering activities within the North Expansion Unit have induced an artificial hydraulic gradient towards the pumping centers, which is naturally higher compared to the preexisting gradient of the uppermost aquifer.

3. CURRENT GROUNDWATER MONITORING PROGRAM

3.1 Existing Monitor Well Network

The facility has an extensive network of monitoring wells from which groundwater data is obtained. Separate monitor well networks exist for the Northern and Southern Units. The Northern Unit contains 20 groundwater monitoring points, of which five are designated as background groundwater quality wells (upgradient). One is a compliance boundary well at the edge of the zone of attenuation, and the remaining wells monitor within the zone of attenuation downgradient and sidegradient of the landfill. Winnebago Landfill samples 15 additional wells on a quarterly basis as part of the Groundwater Management Zone (GMZ) monitoring network. Each well is identified in Figure 2. The following table provides a list of the monitoring wells for the Northern Unit.

Northern Unit Detection Mon	itoring Wells (20)						
Upgradient	G09D, G09M, G13S, G13D, G20D						
Compliance Boundary	R39S	;					
Zone of Attenuation	G03M, G16M, G17S, G33D, G34D, G35D,						
	G37S, G38S, G40S, G41D, G41M, G41S, R42S, G51S						
Northern Unit GMZ Only Well	s (15)						
Compliance Boundary	G36S, G52S, G52M, G53S, G53M, G54S, G54M						
Zone of Attenuation	R03S, G16D, G33S, G34S, G35S, G37D, G130, G50S						

The Southern Unit contains 17 permitted groundwater monitoring points. Six are designated as background groundwater quality wells (upgradient); two (G13S and G13D) are also background wells for the Northern Unit. Although monitoring wells R05S, R29S, and G29D are permitted as zone of attenuation wells, based on the potentiometric surface maps (Appendix B), these wells are also located upgradient to the waste units. The wells have been used previously in the derivation of the background concentration values (sometimes called Applicable Groundwater Quality Standards [AGQS]) for the unit. The following table lists the monitoring wells for the Southern Unit.

Southern Unit Detection Monitoring	Wells (17)
Upgradient	R11S, G11D, G13S, G13D, R22S, G22D
Zone of Attenuation	R05S, G23D, R24D, R25D, R27D, A28D, R29S, G29D, G26S, G26D, G49D

3.2 Background Concentrations

The initial AGQSs for the Northern Unit were determined from data obtained from four wells located east of Lindenwood Road, on the Acme Solvents property (B-8, STI-2S, STI-2I, and STI-2D). Background sampling occurred from 1990 through 1992. The AGQSs were proposed in the initial significant modification application (Application Log No. 1991-138, received by the Illinois EPA April 12, 1991) and subsequent addenda. Addendum 3 to the initial significant modification, dated February 10, 1993, provided the first full listing of routine AGQS values derived from wells G09M, G09D, G13S, and G13D. Since the time the background concentrations were obtained, remediation at the Acme Solvents facility ceased and an additional quarry began operation north and east of Acme Solvents (the facilities are located upgradient to the landfill). The approximate locations of Acme Solvents and the quarries are shown in Figure 1. These activities have likely affected the current background conditions. To account for changes in the background groundwater quality since 1993, revised AGQS values for 60 G1 and G2 List parameters were submitted and subsequently approved with the issuance of Modification 24 to the current permit on March 26, 2004.

The initial AGQSs for the Southern Unit were determined from data obtained from the permitted upgradient/background wells. However, revisions to several background values have included data from wells R05S, G29S, and G29D as part of the statistical derivation. Although permitted as zone of attenuation wells, these wells are actually hydraulically upgradient to the Southern Unit and provide additional information on the background groundwater quality. As mentioned in Section 3.1 above, monitoring wells G13S and G13D are contained in the monitoring well networks for both the Northern and Southern Units and are located hydraulically upgradient to both units. As a special condition for the Southern Unit (Condition VII.24 of Permit No. 1991-138-LF, Modification No. 62), the groundwater qualities for these two wells—along with R05S—are not evaluated with respect to the permitted AGQSs but are reviewed based on intra-well trend analyses. The results are summarized in the annual report in accordance with Condition X.2 of the Permit.

4. GROUNDWATER QUALITY

In accordance with 35 Illinois Administrative Code (III. Adm. Code) 811.319 and the current permit, the groundwater quality is evaluated on a quarterly basis. Results of the statistical evaluations are reported quarterly in accordance with Condition No. VII.18. Notification of observed/confirmed increases has been submitted in accordance with Condition VII.14 of the permit. As stated in the introduction, this alternate source demonstration will address the second quarter 2013 confirmed exceedence of tetrahydrofuran at well R25D (Southern Unit). The historical analytical data for the subject exceedence is provided in Table 1.

4.1 Tetrahydrofuran

The second quarter 2013 concentration (17 ug/L) of tetrahydrofuran at well R25D exceeded the AGQS/MAPC value (7 ug/L) and the preceding fourth quarter 2012 concentration (< 2 ug/L). This was the first detection of the subject parameter at well R25D since sampling commenced in second quarter 1998. The third quarter 2013 concentration (4.4 ug/L) did not confirm the AGQS/MAPC exceedence.

It has been determined that the source of the confirmed increase is an unknown offsite source, not landfill impacts. Tetrahydrofuran has no history of detection in well R25D. Nor has it ever been detected in adjacent wells R24D, G26D, G26S, or G27D which are all located along the

southwestern perimeter of the Southern Unit. It should also be noted that during second quarter 2013, groundwater elevation in well G23D, located at the southwestern corner of the Southern Unit, increased by approximately 13 feet compared to the previous quarter and has sustained the high water level through third quarter 2013 (Appendix B). This change in the potentiometric surface has effectively converted G23D into an upgradient well and R24D and R25D into sidegradient wells compared to the waste unit. Given the current shift in the local groundwater flow regime, it is highly unlikely that any exceedences in the subject well are related to the waste unit.

This is a clear indication that the isolated detects for tetrahydrofuran observed in R25D are likely due to offsite sources. Since the current concentrations are below the AGQS/MAPC value, no further action is necessary for this parameter.

5. RECOMMENDATIONS AND CONCLUSIONS

Based on an evaluation of the historic sampling results, trend analyses, groundwater flow direction, and background information, the confirmed increase of tetrahydrofuran at R25D is not associated with the landfill but appears to be isolated incidents related to upgradient offsite sources. Since current concentrations of tetrahydrofuran at well R25D are below the permitted AGQS/MAPC value, no further action is necessary; groundwater monitoring shall continue as currently permitted. This alternate source demonstration fulfills the requirements of Condition VII.15 of Permit No. 1991-138-LF, Modification No 62.

TABLES

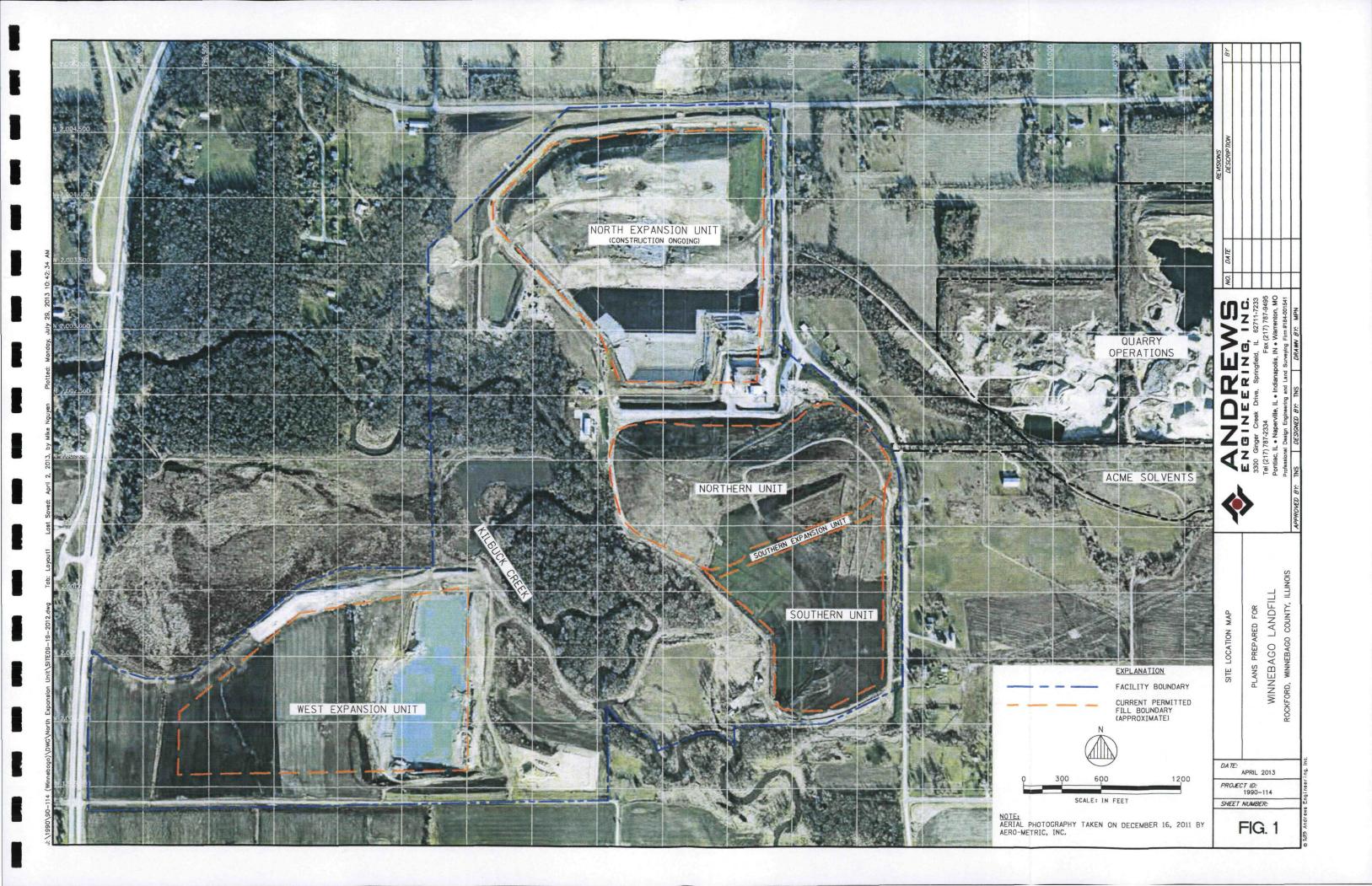
Vinnesage Landin Southern Unit

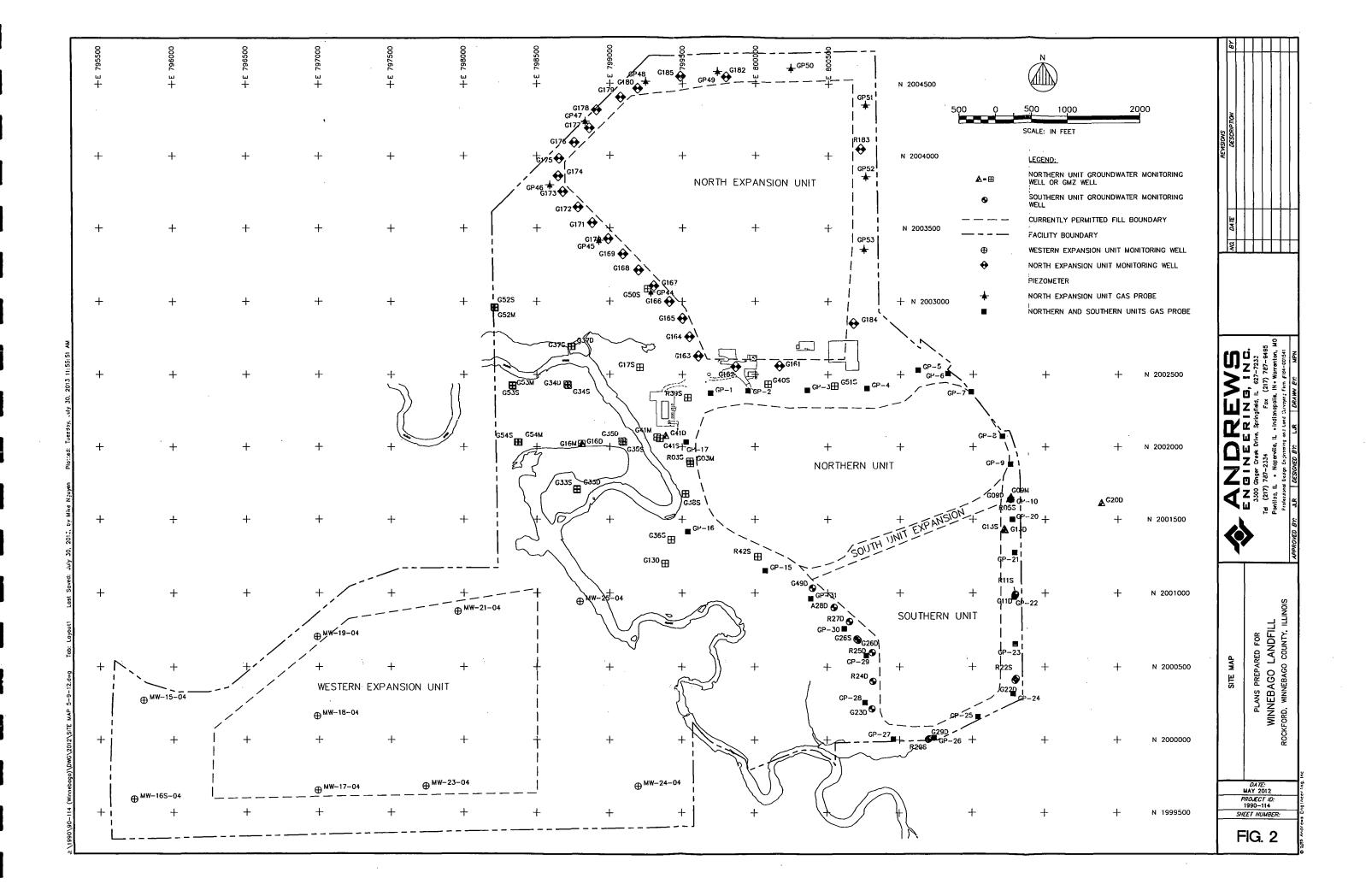
R25D - Historical Tetrahydrofuran Analytical

Well ID	Parameter	Units	AGQS/MAPC	2r	ndQtr98	2nc	Qtr99	2nd	Qtr00	2n	dQtr01	2nd	Qtr02	2nd	Qtr03	2nd	Qtr04	2nc	Qtr05	2n	ndQtr06		2ndQtr07	2	ndQtr08
R25D	Tetrahydrofuran	ug/l	7	<	5	<	5	<	5	<	5	<	5	<	5	<	5	<	5	<	5	<	5	<	5

Well ID	Parameter	Units	AGQS/MAPC	4th	Qtr08	2n	dQtr09	4t	hQtr09	2n	dQtr10	4th	nQtr10	2nc	fQtr11	4th	Qtr11	2nd	Qtr12	41	thQtr12	2ndQtr13	3rdQtr13
R25D	Tetrahydrofuran	ug/l	7	<	20	<	2.5	<	2.5	<	2.5	<	2.5	<	2	<	2	<	2	<	2	17	4.4

FIGURES





APPENDICES

APPENDIX A APPLICATION FORMS





Site Identification:

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

General Application for Permit (LPC - PA1)

This form must be used for any application for permit from the Bureau of Land, except for landscape waste composting or hazardous waste management facilities regulated in accordance with RCRA, Subtitle C. One original, and two copies, or three if applicable, of all permit application forms must be submitted. Attach the original and appropriate number of copies of any necessary plans, specifications, reports, etc. to fully support and describe the activities and modifications being proposed. Attach sufficient information to demonstrate the compliance with all regulatory requirements. Incomplete applications will be rejected. Please refer to the instructions for further guidance. Note: Applicants must provide a physical address; the post office will not deliver a certified letter (final action letter) to a P.O. Box only. Please provide an extended ZIP+4 code for the site identification and owner/operator information.

You may complete this form online, save a copy locally, print, sign and submit it to the Bureau of Land at the address below. Note: Hand-delivered permit applications must be delivered between 8:30 am and 5:00 pm, Monday through Friday (excluding State holidays) to:

Bureau of Land, Permit Section, Mail Code #33 1021 North Grand Avenue East, P.O. Box 19276 Springfield, IL 62794-9276

Ctract Address	8403 Lindenwood Road				IEPA BOL No.	P.O. Box:
City: Rockford		State: II	_ Zip + 4:* <u>6</u>	1109 *N	lotification letters will not be	County: Winnebago
•			- •	se	ent without a 9-digit zip code.	County. viiinebago
	Permit Numbers (if applical t Identification:	ole): <u>155</u>	71-100-LI		· · · · · · · · · · · · · · · · · · ·	
II. Applicati	Owner				Оре	erator (if Different)
Name:	Winnebago Landfill Compa	any, LLC	_	Name:	Winnebago Recla	mation Service, Inc.
Street Address	: 5450 Wansford Way, Suite	201B		Street Address	s: 5450 Wansford W	/av. Suite 201B
PO Box:				PO Box:		_
City:	Rockford	_ State:	<u>IL</u>	City:	Rockford	State: <u>IL</u>
Zip + 4:	61109 Phone:			Zip + 4:	61109	Phone:
Contact:	Tom Hilbert			Contact:	Tom Hilbert	
Email Address:	thilbert@rresvcs.com			Email Address	s: thilbert@rresvcs.c	com
FEIN ID No.	36-2917437			FEIN ID No.	36-2917437	
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This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Alternate source demonstration for second quart	er 2013	confirmed e	xceedences	(Permit No. 1991	-138-LF).
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V. Completeness Requirements					
. Have all required public notice letters been ma	ailed in a	ccordance v	vith the LPC	C-PA16 instruction	s? Yes ☑ No ☐ N/A [
(If so, provide a list of those recipients of the r imply any Illinois EPA review and/or confirmat			letters for I	Ilinois EPA retenti	on. Such retention shall not
Public Notice Recipients					
Name: Steve Stadelman			Title: Sena	tor - District 34	
Street Address: 200 South Wyman Street, Su	ite 301			_	P.O. Box:
City: Rockford State	te: IL	_ Zip Code:	61101		
Name: Charles Jefferson			Title: Repr	esentative - Distric	et 67
Street Address: 200 South Wyman Street, Su	ite 304				P.O. Box:
City: Rockford State	e: <u>IL</u>	_ Zip Code:	61101		
Name: Joseph Bruscato			Title: State	's Attorney	
Street Address: 400 West State Street	<u>-</u>				P.O. Box:
City: Rockford State	e: <u>IL</u>	_ Zip Code:	61101		
Name: Scott Christiansen			Title: Coun	ty Chairman	
Street Address: 404 Elm Street, Room 504				·	P.O. Box:
City: Rockford Stat	e: <u>IL</u>	_ Zip Code:	61101		
Name: Village of New Milford			Title: Villag	je Clerk	
Street Address: 6771 11th Street					P.O. Box:
City: Rockford State	e: <u>IL</u>	_ Zip Code:	61109		
Name: Village of Davis Junction			Title: Villag	je Clerk	
Street Address: 106 North Elm Street					P.O. Box: 207
City: Davis Junction Stat	e: <u>IL</u>	_ Zip Code:	61020	·	
Name: Cherry Valley Township			Title:		
Street Address: 4875 Blackhawk Road		_			P.O. Box:
City: Rockford Stat	e: <u>lL</u>	_ Zìp Code:	61109		
Name:			Title: City o	of Rockford Clerk	
Street Address: 425 East State St			 		P.O. Box:
City: Rockford Stat	e: IL	Zip Code:	61104		

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Name: Village of Cherry Valley Title:			
Street Address: 806 East State Street P	.O. Box	:	·
City: Cherry VAlley State: IL Zip Code: 61016			
	Yes	No	N/A
Has the required Certification of Authenticity been completed and enclosed?	/		
a. Is the Siting Certification Form (LPC-PA8) completed and enclosed?		\checkmark	
b. Is siting approval currently under litigation?		✓	
a. Is a closure, and if necessary a post-closure plan covering these activities being submitted, or		V	
b. has one already been approved?	V		
If yes, provide the permit number: 1991-138-LF			
a. For operating waste disposal sites, only: Has any employee, owner, operator, officer or director of the owner or operator had a prior conduct certification denied, canceled or revoked?		\checkmark	
b. Have you included a demonstration of how you comply or intend to comply with 35 III. Adm. Code 745?		V	
a. For waste disposal sites, only: Is the property for the facility held in a beneficial trust?		V	
b. If yes, is a beneficial trust certification form (LPC-PA9) completed and enclosed?			V
a. Does the application contain information or proposals regarding the hydrogeology; groundwater monitoring, modeling or classification; a groundwater impact assessment; or vadose zone monitoring for which you are requesting approval?	r 🗸		
b. If yes, have you submitted a third copy of the application (4 total) and supporting documents?	V		
Has a 39(i) certification been submitted for each owner and operator business entity, and each person who signed for each entity, and each person who signed or may sign any application for this facility? Note: Only the original set of these forms need be submitted.	V		
If no, then complete this certification as indicated.			

V. Signatures:

Original signatures are required. Signature stamps or applications transmitted electronically or by FAX are not acceptable,

All applications shall be signed by the person designated below as a duly authorized representative of the owner an/or operator. A printed name for each signature should also be provided.

Corporation - By a principal executive officer of the level of vice-president or above.

Partnership or Sole Proprietorship - By a general partner or the proprietor, respectively.

Government - By either a principal executive officer or a ranking elected official.

A person is a duly authorized representative of the owner and operator only if:

- 1. They meet the criteria above or the authorization has been granted in writing by a person described above; and
- 2. Is submitted with this application (a copy of a previously submitted authorization can be used).

I hereby affirm that all information contained in this application is true and accurate to the best of my knowledge and belief. I do herein swear that I am a duly authorized representative of the owner/operator and I am authorized to sign this permit application

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415

ILCS 5/44(h))	
Thomas Hilbert Ensintering Mar	
Owner Signature: Date:	
Owner Signature: Date:	
Notary: Subscribed and Sworn before me this 30th day of Octriber 2013	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
My commission expires on: 1/10/2014 NOTAF	DEFICIAL SEAL" Nicole K. DeBoer RY PUBLIC, STATE OF ILLINO DMMISSION EXPIRES 1/10/20
Juli com	imminim
Signature & Stamp/Seal of Notary Public	
Thomas Hilbert Ensineering	-
Printed Name:	
10 - 30 - 2013 Operator Signature: Date:	
Notary: Subscribed and Sworn before me this 30th day of Ortaber 2013	FICIAL SEAL"
My commission expires on: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Nicole K. DeBoer PUBLIC, STATE OF ILLINOIS MISSION EXPIRES 1/10/2014
Signature & Stamp/Seal of Notary Public	
Licensed Professional Engineer's Name: Doods W. Maintel	
Licensed Professional Engineer's Title: Project Engineering	;
Registration Number:	W. Marine
Street Address: 3300 Ginger Creek Drive PO Box: PO Box:	-054530
City: Springfield State: IL Zip + 4: 62711	STERED ME
D (1 -) ENE	SINEER SAE
License Expiration Date:	OGTOCOMER MENTERS LINE
License Expiration Date.	MONShir.
Signature: Date: 10/31/13 Licensed Profession	ional Engineer's Seal



Illinois Environmental Protection Agency Bureau of Land 1021 North Grand Avenue East Box 19276 Springfield, IL 62794-9276

Certification of Authenticity of Official Forms

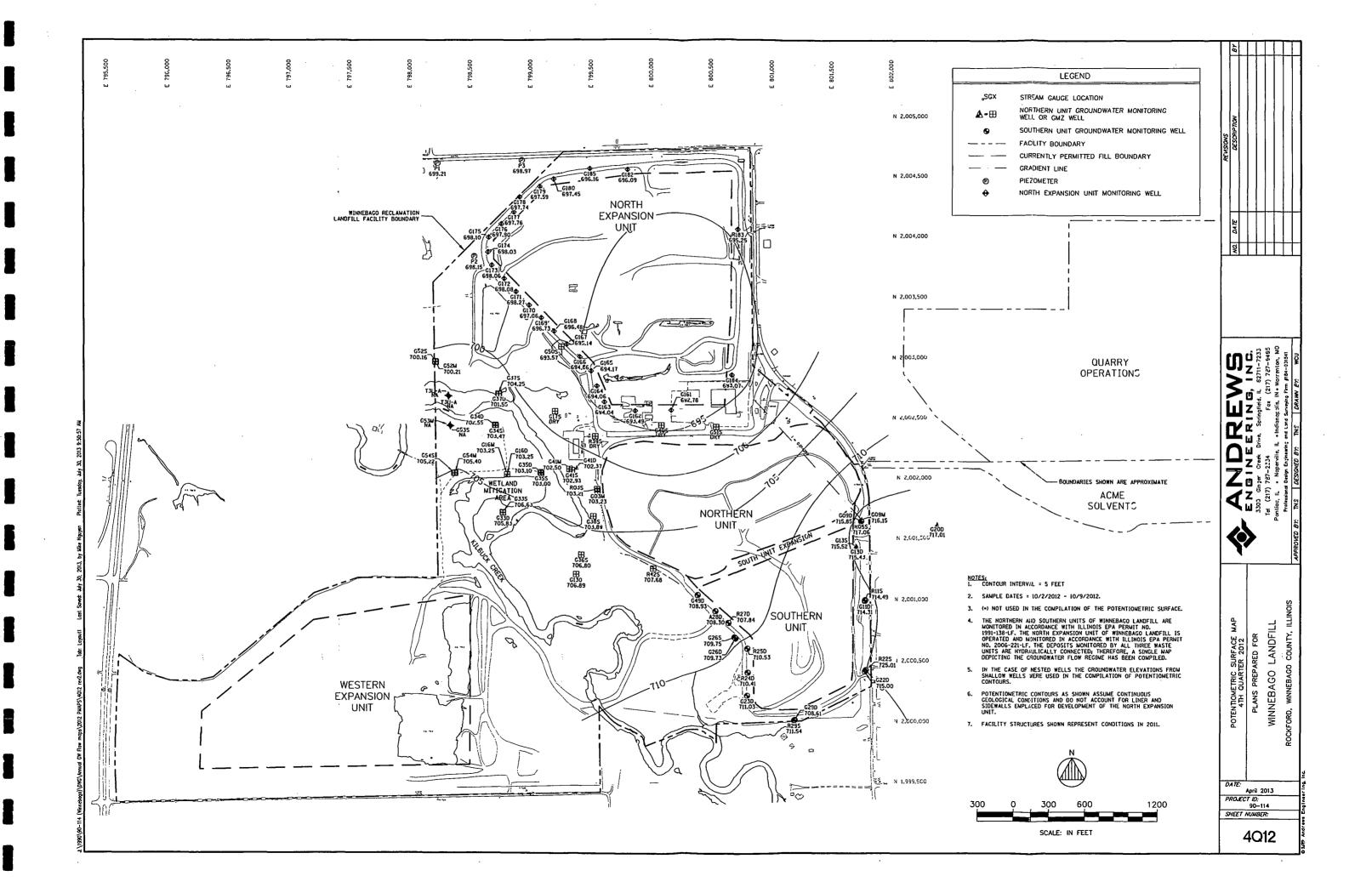
This form must accompany any application submitted to the Illinois EPA Bureau of Land, Division of Land Pollution Control, Permit Section on forms other than the official copy printed and provided by the Illinois EPA. The only allowed changes to the form are in spacing, fonts, and the addition of the information provided. Any additions must be underlined. The forms would not be considered identical if there is any change to, addition or deletion of words on the form or to the language of the form.

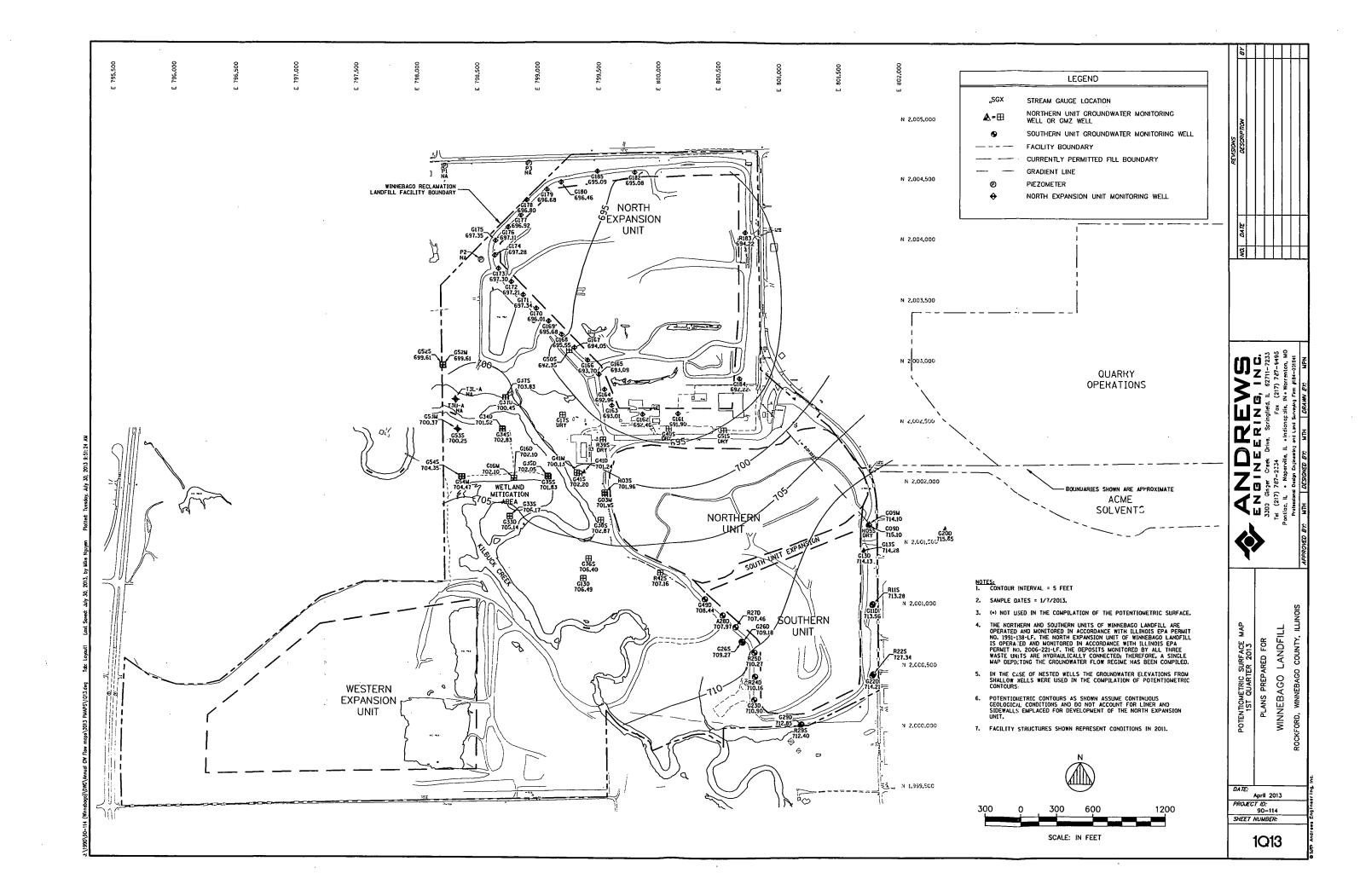
The same individuals that sign the application form it accompanies must sign the following certification.

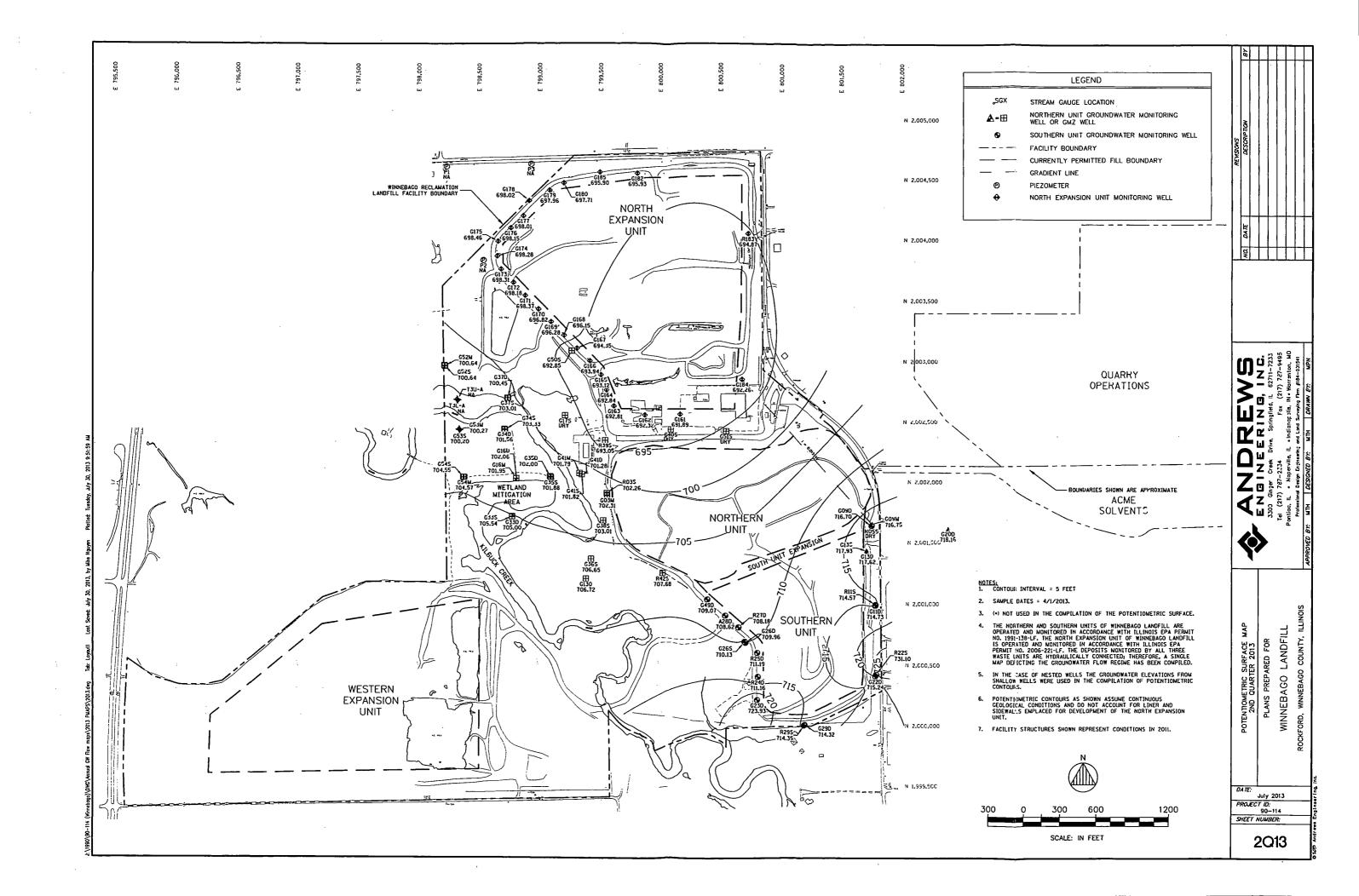
I hereby certify under penalty of law that I have personally examined, and am familiar with the application form or forms and all included supplemental information submitted to the Illinois EPA herewith, and that the official Illinois Environmental Protection Agency application form or forms used herein is or are identical in all respects to the official form or forms provided by the Illinois EPA Bureau of Land Permit Section, and has not or have not been altered, amended, or otherwise modified in any way. I further certify under penalty of law that any attached or included electronic data version of the application form or forms complies with the official Illinois EPA's Electronic version thereof, and is or are identical in all respects to the official electronically downloadable form or forms provided by the Illinois EPA Bureau of Land Permit Section, and has not or have not been altered, amended or otherwise modified in any way.

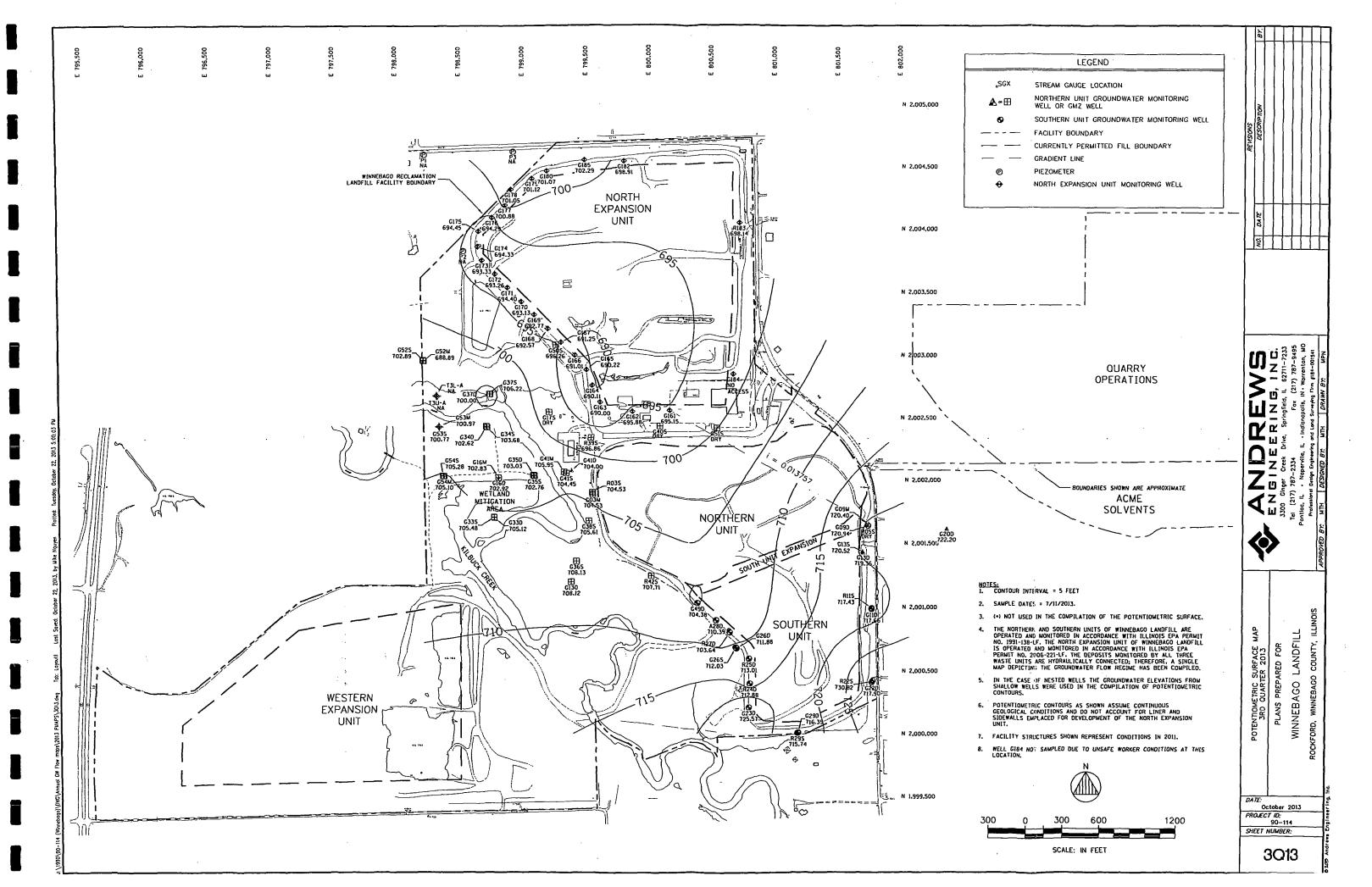
construction and an experience	
Ву:	10-30-2013
Owner Signature	(date)
Englineer, Myr	
	10-30-2013
Operator Signature	(date)
Title Title Engineer Signature (if necessary)	(date)
Subscribed and Sworn to Before Me,	4
a Notary Public in and for the above-mentioned County and State.	
Notary Public De Ba	"OFFICIAL SEAL" Nicole K. DeBoer NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 1/10/2014
My Commission Expires: 1/10/2014	[Notary Seal]

APPENDIX B
POTENTIOMETRIC SURFACE MAPS











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